AMENDMENTS TO THE SPECIFICATION

Please replace Paragraph [0029] with the following amended paragraph:

[0029]   Reference numeral 102B refers to a second parametric dataset pertaining to memory compilers operable to compile memory instances having a second MUX factor (MUX-2), e.g., MUX factor of 4, 8, 16, 32, et cetera. In accordance with the teachings of the present invention, the second parametric dataset 102B is relatively sparsely characterized, in that a small number out of the possible memory clusters of MUX-2 are selected for characterization via, e.g., simulation, with respect to the same parameter (TP_N) that has been characterized for the MUX-1 memory compilers. Further, each MUX-2 memory compiler, which is operable for compiling a respective memory instance organized with the MUX-2 factor, is preferably sampled such that a memory instance compiled by its MUX-2 compiler corresponds to a respective congruent memory instance of the first parametric dataset 102A that is comprised of the same numbers of physical rows and physical columns. In other words, if a MUX-2 memory instance sampled for actual simulation comprises i rows and j columns, there is a corresponding memory instance in the first

2

parametric dataset ~~102B~~ 102A that is actually simulated with respect to the parameter of interest that also has i rows and j columns but organized with MUX-1 factor. Such memory instances may be conveniently referred to as a congruent memory instance pair. Also, the corresponding compilers may analogously be referred to as a congruent compiler pair.

3